

## IN THE CLAIMS

Please amend claim 1 as shown below. The status of other claims are as shown in parenthesis.

1           1. (currently amended) A coupling assembly for connecting, as an axially  
2 serial continuation, a down hole motor rotor to the down hole motor output shaft,  
3 the coupling assembly comprising:

4           a) a first flexible coupling, having lubricant space therein, arranged for  
5 connection, at a first end, to the output shaft;

6           b) a second flexible coupling, having lubricant space therein, arranged for  
7 connection at a third end to the first coupling and arranged, at a fourth end  
8 arranged for connection to the motor rotor;

9           c) a first flexible seal situated in the first flexible coupling, arranged to  
10 function as a closure for the lubricant space between the first and second ends,  
11 the seal comprising a first metal sleeve sealingly and peripherally attached to one  
12 end of the first coupling, a first elastomer sleeve sealingly and peripherally  
13 attached at one end to the distal end of the first metal sleeve and sealingly and  
14 peripherally attached at the other end to the other end of the first flexible  
15 coupling;

16           d) a second flexible seal situated in the second flexible coupling, arranged  
17 to function as a closure for space between the third and fourth ends, the seal  
18 comprising a second metal sleeve sealingly and peripherally attached to one end  
19 of the first coupling, ~~[[an]]~~ a second elastomer sleeve peripherally attached at one  
20 end to the distal end of the second metal sleeve and sealingly peripherally  
21 attached at the other end to the other end of the second flexible coupling;

22           e) at least one variable volume lubricant reservoir in the assembly and  
23 arranged with fluid channels to provide lubricant to at least one of the un-  
24 occupied spaces of at least one of the couplings.

2. (original) The coupling assembly of claim 1 wherein the variable volume reservoir comprises two variable volume reservoirs, each variable volume reservoir arranged to supply lubricant to a different one of the two couplings.

3. (original) The coupling assembly of claim 1 wherein each elastomer sleeve is bonded to its related metal sleeve.

4. (original) The coupling assembly of claim 1 wherein each elastomer sleeve is attached to the other end of the related flexible coupling by a retaining peripheral band.

5. (original) The coupling assembly of claim 1 wherein the flexible sleeve is attached to the metal sleeve by radial force exerted by an internal peripherally expanded band.

1           6. (original) The coupling assembly of claim 1 wherein the elastomer  
2 sleeve is related to mounting provisions such that, when the related coupling is  
3 straight, the elastomer sleeve is in initial axial tension.

1           7. (original) The coupling assembly of claim 1 wherein the elastomer  
2 sleeve is related to mounting provisions such that, when the related coupling is  
3 straight, the elastomer sleeve is in initial axial compression.

1           8. (original) The coupling assembly of claim 1 wherein the elastomer  
2 sleeve is provided with a security ring expanded inside the elastomer sleeve to  
3 urge it against the related metal sleeve.

1           9. (Withdrawn) A down hole motor flexible coupling for use as an axially  
2 serial coupling between the down hole motor rotor and the output shaft of the  
3 down hole motor, the flexible coupling comprising:

4           a) a first coupling portion, having a first axis, with first abutment surfaces  
5 arranged to deliver rotational force about the first axis;

6           b) a second coupling portion, having a second axis, with second abutment  
7 surfaces to deliver rotational forces to the first abutment surfaces to transmit  
8 torque along the axes which are mutual extensions;

9           c) lubricant channels, between the portions, arranged to provide lubricant  
10 to the abutment surfaces;

11           d) a hermetic seal providing closure between the two portions, the seal  
12 comprising;

13           e) a metal sleeve sealingly attached to the outer surface of one portion and  
14 extending axially toward the other portion;

15           f) an elastomer sleeve sealingly attached to the metal sleeve and extending  
16 axially toward the other sleeve and sealingly clamped peripherally at the distal  
17 end to the other portion;

18           g) a variable volume lubricant reservoir in one portion with fluid channels  
19 providing lubricant communication to the lubricant channels;

20           h) the hermetic seal providing closure between the two portions.

1           10. (withdrawn) The down hole motor flexible coupling according to claim  
2 9 wherein an annular ring is situated inside the elastomer sleeve and expanded  
3 therein to provide radial compression to the inner surface of the elastomer sleeve  
4 to urge it against the inner surface of the metal sleeve.

1           11. (withdrawn) The down hole motor flexible coupling according to claim 9  
2 wherein the elastomer sleeve is sealingly clamped to the other portion by a band situated

3 on the outer surface of the elastomer sleeve to secure it to the other portion.

1 12.(original) A sealed coupling assembly for connecting, as an axially  
2 serial continuation, a down hole motor rotor to the down hole motor output shaft,  
3 the coupling assembly comprising:

4 a) a first flexible coupling, having lubricant space therein, arranged for  
5 connection, at a first end, to the output shaft;

6 b) a second flexible coupling, having lubricant space therein, arranged for  
7 connection at a third end to the first coupling and arranged, at a fourth end  
8 arranged for connection to the motor rotor;

9 c) a first flexible seal situated in the first flexible coupling, arranged to  
10 function as a closure for the lubricant space between the first and second ends,  
11 the seal comprising a first metal sleeve sealingly and peripherally attached to one  
12 end of the first coupling, a first flexible sleeve sealingly and peripherally  
13 attached at one end to the distal end of the first metal sleeve and sealingly and  
14 peripherally attached at the other end to a second metal sleeve which is sealingly  
15 attached to the other end of the first flexible coupling;

16 d) a second flexible seal situated in the second flexible coupling, arranged  
17 to function as a closure for space between the third and fourth ends, the seal  
18 comprising a third metal sleeve sealingly and peripherally attached to one end of  
19 the first coupling, an second flexible sleeve peripherally attached at one end to  
20 the distal end of the third metal sleeve and sealingly peripherally attached at the  
21 other end to a fourth metal sleeve which is sealingly attached to the other end of  
22 the second flexible coupling;

23 e) at least one variable volume lubricant reservoir in the assembly and  
24 arranged with fluid channels to provide lubricant to at least one of the un-  
25 occupied spaces of at least one of the couplings.

13. (withdrawn) The coupling assembly of claim 12 wherein said flexible sleeves are convoluted bellows.

14. (withdrawn) The coupling assembly of claim 13 wherein said convoluted bellows are supported internally by at least one hoop inside at least one convolution.

15. (withdrawn) The coupling assembly of claim 13 wherein said convoluted bellows is radially restrained by at least one band on the outside of at least one convolution.

16. (withdrawn) The coupling assembly of claim 13 wherein said convoluted bellows is of metal construction.

1 17. (withdrawn) The coupling assembly of claim 13 wherein said convoluted bellows are radially supported by a wear ring situated on the inside of at least one said convolution.